Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

5 **Listing of Claims**

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Claim 1 (currently amended): An optical disc recording apparatus comprising:

- a laser diode driven according to a write strategy generator to generate a multi-pulse light pulse having a fixed-duty ratio with two power levels during APC mode;
- a photodiode for generating output voltage according to a sensed power of the light pulse;
- a signal processor for averaging the generated output voltage;
- at least one sample and hold circuit coupled to the signal processor for sampling and holding the average generated output voltage according to a sample and hold signal; and
- an Endec controller, coupled to the write strategy generator, for generating an APC mode signal and a predefined NRZI pattern having a run length selected changing according to a relationship between recording speed and a bandwidth of the photodiode;
- wherein the power of the laser diode is controlled according to held average generated output voltage occurring during the APC mode.
 - Claim 2 (original) The optical disc recording apparatus of claim 1 wherein the signal processor for averaging the generated output voltage is a low pass filter.
 - Claim 3 (previously presented): The optical disc recording apparatus of claim 1 further comprising a sample and hold signal generator connected to the Endec controller for generating the sample and hold signal when the average generated output voltage

has substantially stabilized.

Claim 4 (previously presented): The optical disc recording apparatus of claim 3 wherein the at least one sample and hold circuit is connected to the low-pass filter and to the sample and hold signal generator for sampling and holding the average generated

output voltage according to the sample and hold signal.

Claim 5 (original): The optical disc recording apparatus of claim 4 wherein the average generated output voltage held by the sample and hold circuit is multiplied by a

predetermined coefficient to control the power of the laser diode.

Claim 6 (original): The optical disc recording apparatus of claim 5 wherein the predetermined coefficient is equal to the inverse of the fixed-duty ratio.

15 Claim 7 (canceled)

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Claim 8 (original): The optical disc recording apparatus of claim 1 wherein the Endec

controller initiates the APC mode exclusively within predefined APC areas of the

optical disc.

Claim 9 (original): The optical disc recording apparatus of claim 1 wherein the laser

diode utilizes a Blu-ray, Rewritable standard.

Claim 10 (currently amended): A method for controlling laser power in an optical disc

recording apparatus, the optical disc recording apparatus comprising a laser diode, a

photodiode, and an Endec controller, the method comprising:

initiating an APC mode utilizing the Endec controller;

generating a multi-pulse light pulse having a specific pattern having a run length

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selected changing according to the relative relationship between recording speed and response of the photodiode, a predetermined fixed-duty ratio, and two power levels with the laser diode during the APC mode;

generating photodiode output voltage according to the sensed power of the generated multi-pulse light pulse during the APC mode;

substantially averaging the photodiode output voltage utilizing a signal processor; and

utilizing the substantially averaged photodiode output voltage to control power of the laser diode.

Claim 11 (previously presented): The method of claim 10 wherein the predetermined fixed-duty ratio is less than one and the selected run length is longer when the photodiode has a relatively slower response than when the photodiode has a relatively faster response.

Claim 12 (original): The method of claim 11 wherein the substantially averaged photodiode output voltage multiplied by the inverse of the fixed duty ratio is compared to a target power for controlling the power of the laser diode.

Claim 13 (original): The method of claim 10 wherein the optical disc recording apparatus further comprises a write strategy generator connected to the Endec controller for causing the laser diode to generate the multi-pulse light pulse during the APC mode.

Claim 14 (original): The method of claim 10 wherein the generated multi-pulse light pulse is a first multi-pulse light pulse utilized to measure write power or a second multi-pulse light pulse utilized to measure erase power.

Claim 15 (original): The method of claim 10 wherein the Endec controller initiates the

APC mode exclusively within a predefined APC area of the optical disc.

Claim 16 (original): The method of claim 10 wherein the optical disc recording apparatus utilizes a Blu-ray Disc, Rewritable standard.

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Claim 17 (original): The method of claim 10 wherein the signal processor for averaging the photodiode output voltage is a low pass filter.

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Claim 18 (currently amended): A method for controlling laser power in a Blu-ray optical disc recording apparatus when in APC power control mode, the Blu-ray optical disc recording apparatus comprising a laser diode for generating multi-pulse light pulses and a photodiode outputting a measured power of the light pulses, the method comprising:

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controlling an NRZI pattern encoder to generate a predetermined power control pattern having a run length selected changing according to the relative relationship between recording speed and response of the photodiode;

controlling a write strategy generator to generate write strategy to a laser diode driver such that the laser diode outputs multi-pulses having a fixed-duty ratio with two power levels;

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sampling and holding an average output of the measured power of the light pulses, the average output of the measured power obtained utilizing a signal processor;

controlling the laser diode power level according to predetermined present levels and the held average output of the measured power of the light pulses.

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Claim 19 (previously presented): The method of claim 18 wherein the fixed-duty ratio is less than 1, the selected run length is longer when the photodiode has a relatively slower response than when the photodiode has a relatively faster response, and the

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selected run length is not constrained to the maximum run length permitted under the Blu-ray specification.

Claim 20 (original): The method of claim 19 wherein the signal processor for averaging the output of the measured power of the light pulses is a low pass filter.

Claim 21 (original): The method of claim 19 wherein the laser diode power level is controlled according to the predetermined present levels and the held average output of the measured power of the light pulses multiplied by the inverse of the fixed-duty ratio.